INTERSECTION OPERATION

A CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION.
THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. THERE WILL
BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MOVEMENT OF LEGION ROAD. THE LEGION ROAD THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE WAL-MART ENTRANCE MOVEMENT WILL OPERATE ALONE.

ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION	

MAINTENANCE OF TRAFFIC

MOBILIZATION LUMP SUM

27 FT, STEEL MAST ARM POLE WITH 70 FT, MAST ARM

27 FT. STEEL MAST ARM POLE WITH 50 FT. MAST ARM

20 FT, LUMINAIRE ARM

250W HPS LAMP AND LUMINAIRE

STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER. BASE MOUNTED NEMA 6 CABINET. VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE EQUIPMENT, AND ONE (1) FOUR-CHANNEL LOOP DETECTOR AMPLIFIER [Note: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECONOLITE AND DELIVERED TO THE S.H.A. SIGNAL SHOP FOR WIRING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650]

EA TERRA VIDEO DETECTOR CAMERA

TERRA VIDEO DETECTOR CAMERA CABLE

NON-INVASIVE PROBE (SET OF 3) WITH 500 FT, LEAD-IN CABLE

12 IN. 3-SECTION LED SIGNAL HEAD - MAST

12 IN. 5-SECTION LED SIGNAL HEAD - MAST

8 IN./12 IN. 5-SECTION LED SIGNAL HEAD - MAST

24 IN X 24 IN W16-14(1) & 36 IN, X 36 IN, W3-3 - "NEW" & WARNING SIGN - GROUND MOUNTED

20 IN. X VAR. D-3(1) SIGN - MAST ARM

EA 48 IN. X 72 IN. SHIELD ASSEMBLY SIGN - GROUND MOUNTED

EA 30 IN. \times 36 IN. R3-5(R) SIGN - MAST ARM EA 30 IN. \times 36 IN. R3-5(L) SIGN - MAST ARM

LF 4 IN. X 4 IN. WOOD SIGN SUPPORTS

TEST PIT EXCAVATION

HANDHOLE

45

1-CONDUCTOR (NO. 8 A.W.G.)

2-CONDUCTOR TRAY CABLE (NO. 12 AWG)

5-CONDUCTOR CABLE (NO. 14 AWG)

7-CONDUCTOR CABLE (NO. 14 AWG)

325 BARE COPPER GROUND WIRE (NO. 6 AWG)

> LF 2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED LF 3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED

LF 3 IN. PVC CONDUIT [SCHEDULE 80] - BORED

LF 4 IN. PVC CONDUIT [SCHEDULE 80] — TRENCHED

4 IN. PVC CONDUIT [SCHEDULE 80] - BORED

CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT

GROUND ROD - 3/4IN, X 10 FT, LENGTH

4 IN. X 6 IN. WOOD SIGN SUPPORTS

EMBEDDED ELECTRICAL SERVICE PEDESTAL (100 AMPS)

24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE

PROJECT CONTACTS:

MR. JEFFREY WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 810-3240 MR. NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 810-3270 MR. MIKE LEWIS. ASSISTANT DISTRICT ENGINEER - MAINTENANCE

PHONE: (410) MR. BARRY CLOTHIER, UTILITY ENGINEER

PHONE: (410) 810-3275
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630 MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS

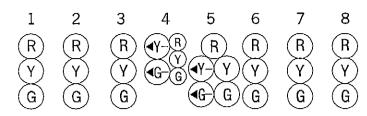
PHONE: (410) 787-7652 THE POWER COMPANY REPRESENTATIVE IS:

MR. ALLEN LORD CHOPTANK ELECTRICAL SERVICE

24820 MEETING HOUSE ROAD (ROUTES 404 & 328) P.O. BOX 430

TEL: 410-479-8612 DENTON, MARYLAND

Phase Chart



PHASE 2 AND 5	R	R	R	← G⁄G	+ G∕G	G	R	R	—
5 CHANGE	R	R	R	← Y/G	← Y⁄G	G	R	R	+ ▼ _
PHASE 2 AND 6	G	G	G	G	G	G	R	R	◄ —
2 AND 6 CHANGE	Y	Υ	Υ	Υ	Υ	Υ	R	R	
PHASE 4	R	R	R	R	R	R	G	G	A I-
4 CHANGE	R	R	R	R	R	R	Y	Υ	H
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

VIDEO DETECTOR CABLE

NON-INVASIVE MICRO-LOOP DETECTOR LEAD-IN CABLE

H 5-CONDUCTOR ELECTRICAL J CABLE (NO. 14 A.W.G.)

L N O CABLE (NO. 14 A.W.G.)

Q BARE COPPER GROUND
Q WIRE (NO. 6 A.W.G.)

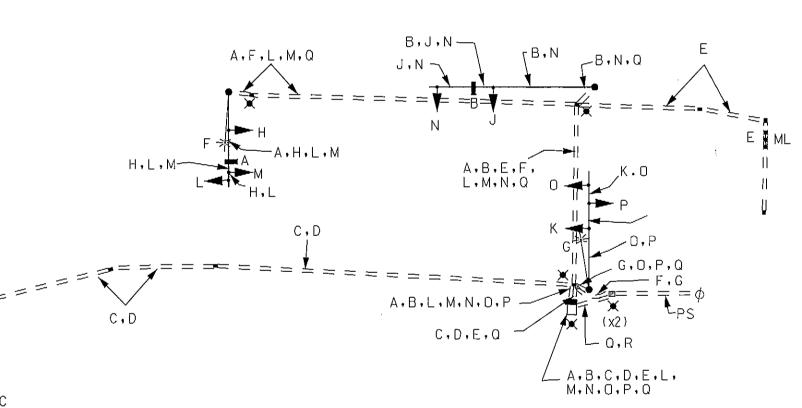
R } 1-CONDUCTOR (NO. 8 A.W.G.) (2 PIECES)
FOR TRAFFIC SIGNAL ELECTRICAL SERVICE

PS } PROPOSED UNDERGROUND ELECTRICAL SERVICE BY CHOPTANK ELECTRIC COOPERATIVE, INC

ML } MICRO-LOOP DETECTOR
(NON-INVASIVE)

★{ PROPOSED GROUNDING ROD

Wiring Diagram



GENERAL INFORMATION SHEET LEGION ROAD AND WAL-MART ENTRANCE

REVISIONS	SCALE: N/A
	DATE: APRIL 6, 201
	DESIGNED BY: FRANK HOECKE
	CHECKED BY: SRTEDD 7-7-11
	JOB NO.: SHA BW996M&Z 2004-113A
	LOCATION: TIMS K413 CAROLINE COUNT
	DRAWING: 2 OF
-	DIOTTED Total Laboratory AT 40-40-AM



The Traffic Group, Inc. Suite H 9900 Franklin Square Drive Baltimore, Maryland 21236 410-931-6600 1-800-583-8411 Fax 410-931-6601

"Merging Innovation and Excellence"®

PLOTTED: Tuesday, July 19, 2011 AT 10:48 AM FILE: F:\2004\2004-1113A\Des\pSG-P001_Legion Rd-Site Access.dgn